IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Corinna Lohning

Group Art Unit: 1639

Serial No.: 10/658,752

Examiner: Amber Steele

Filed: September10, 2003

Title: NOVEL METHODS FOR DISPLAYING (POLY)PEPTIDES/PROTEINS ON BACTERIOPHAGE PARTICLES VIA DISULFIDE BONDS

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

United States Patent and Trademark Office
Customer Service Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria, VA 22314

The Examiner has provided a statement of reasons for allowance that states:

> an isolated host cell comprising a nucleic acid sequence encoding a variant of a wild type coat protein of a bacteriophage wherein said variant comprises a cysteine residue at the C- or N-terminus of a wild type coat protein and one or more nucleic acid sequences encoding polypeptides comprising a cysteine residue wherein the cysteine residues facilitate disulfide bound formation for surface expression of said polypeptide via a disulfide bond formed with the variant bacteriophage coat protein (i.e. surface expression is not due to fusion protein between bacteriophage coat protein and polypeptide).

Applicant respectfully notes that the allowed claims do not recite a step of surface expression, but rather are composition claims that recite a host cell comprising (i) a nucleic acid sequence encoding a variant of a wild type coat protein of a bacteriophage, where the variant comprises at least that part which causes or allows the incorporation of said coat protein into the phage coat, and a cysteine residue; and (ii) one or more nucleic acid sequences encoding a (poly)peptide/protein comprising a cysteine residue. Upon expression of these nucleic acid sequences in the host cell, a disulfide bond is formed between the cysteine residue in the variant and the cysteine residue in the (poly)peptide/protein. Expression of the (poly)peptide/protein on the surface of a phage particle is not required by the claims, but can occur as described in the

specification, for example when the host cell expresses the components necessary to produce phage particles.

This paper is being filed simultaneously with payment of the Issue Fee and therefore is timely filed. However, the Commissioner is hereby authorized by this paper to charge any fees required for filing this paper to Deposit Account 50-2283. **This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. §1.136(a)(3).**

Respectfully submitted,

Date: December 20, 2010

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